Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-37 (cancelled)
- 38. (new) A method for modifying a condition of a material, comprising:

 obtaining a plurality of sensor readings associated with the condition of the

 material as the material moves; and

adjusting a load applied to the material as the material moves based on the plurality of sensor readings to modify the condition of the material toward a desired condition.

- 39. (new) A method as defined in claim 38, further comprising generating a distance deviation value based on the plurality of sensor readings.
- 40. (new) A method as defined in claim 38, further comprising acquiring a travel length value associated with the material as the material moves.
- 41. (new) A method as defined in claim 40, further comprising generating topographical information associated with a surface of the material based on the travel length value and the plurality of sensor readings.

- 42. (new) A method as defined in claim 38, further comprising determining a certification level of the material based on the plurality of sensor readings.
- 43. (new) A method as defined in claim 38, wherein the plurality of sensor readings are generated by at least one of a contact sensor and a non-contact sensor.
- 44. ' (new) A method as defined in claim 38, wherein adjusting the load applied to the material includes adjusting a position of a workroll to vary the load applied to the material.
- 45. (new) A method as defined in claim 38, wherein the material is a strip material.
- 46. (new) A system for modifying the flatness properties of a continuously moving material, the system comprising:

a processor system; and

a memory communicatively coupled to the processor system, the memory including stored instructions that enable the processor system to:

obtain a plurality of sensor readings associated with the condition of the material as the material moves; and

adjust a load applied to the material as the material moves based on the plurality of sensor readings to modify the condition of the material toward a desired condition.

- 47. (new) A system as defined in claim 46, wherein the stored instructions enable the processor system to generate a distance deviation value based on the plurality of sensor readings.
- 48. (new) A system as defined in claim 46, wherein the stored instructions enable the processor system to acquire a travel length value associated with the material as the material moves.
- 49. (new) A system as defined in claim 48, wherein the stored instructions enable the processor system to generate topographical information associated with a surface of the material based on the travel length value and the plurality of sensor readings.
- 50. (new) A system as defined in claim 46, wherein the stored instructions enable the processor system to determine a certification level of the material based on the plurality of sensor readings.
- 51. (new) A system as defined in claim 46, wherein the plurality of sensor readings are generated by at least one of a contact sensor and a non-contact sensor.
- 52. (new) A system as defined in claim 46, wherein the stored instructions enable the processor system to adjust a position of a workroll to vary the load applied to the material.
 - 53. (new) A system as defined in claim 46, wherein the material is a strip material.

54. (new) A machine accessible medium having instructions stored thereon that, when executed, cause a machine to:

obtain a plurality of sensor readings associated with the condition of the material as the material moves; and

adjust a load applied to the material as the material moves based on the plurality of sensor readings to modify the condition of the material toward a desired condition.

- 55. (new) A machine accessible medium as defined in claim 54 having instructions stored thereon that, when executed, cause the machine to generate a distance deviation value based on the plurality of sensor readings.
- 56. (new) A machine accessible medium as defined in claim 54 having instructions stored thereon that, when executed, cause the machine to acquire a travel length value associated with the material as the material moves.
- 57. (new) A machine accessible medium as defined in claim 56 having instructions stored thereon that, when executed, cause the machine to generate topographical information associated with a surface of the material based on the travel length value and the plurality of sensor readings.
- 58. (new) A machine accessible medium as defined in claim 54 having instructions stored thereon that, when executed, cause the machine to determine a certification level of the material based on the plurality of sensor readings.

- 59. (new) A machine accessible medium as defined in claim 54 having instructions stored thereon that, when executed, cause the machine to obtain the plurality of sensor readings from at least one of a contact sensor and a non-contact sensor.
- 60. (new) A machine accessible medium as defined in claim 54 having instructions stored thereon that, when executed, cause the machine to adjust a position of a workroll to vary the load applied to the material.
 - 61. (new) A method of leveling a material, comprising:translating the material past a sensor;

determining a plurality of surface distance values based on the location of the sensor and a location of a surface of the material; and

varying a force applied to the surface of the material in response to the plurality of surface distance values.

- 62. (new) A method as defined in claim 61, wherein varying the force applied to the surface of the material comprises varying a workroll plunge.
- 63. (new) A method as defined in claim 61, wherein varying the compression force applied to the surface of the material comprises varying a workroll center distance.
- 64. (new) A method as defined in claim 61, further comprising determining a plurality of zones associated with the surface of the material.

- 65. (new) A method as defined in claim 64, further comprising determining a plurality of peak values for each of the plurality of zones based on the plurality of surface distances values.
- 66. (new) A method as defined in claim 65, wherein determining the plurality of peak values includes determining a plurality of distance deviation values based on the plurality of surface distance values.
- 67. (new) A method as defined in claim 65, wherein varying the force applied to the surface of the material is based on the plurality of peak values.
- 68. (new) A method as defined in claim 61, further comprising acquiring a traveled length value of the material using an encoder.
- 69. (new) A method as defined in claim 68, wherein the sensor is at least one of a contact sensor and a non-contact sensor.
- 70. (new) A method as defined in claim 61, further comprising determining a certification level of the material based on the flatness properties of the material.
- 71. (new) A method as defined in claim 61, wherein the compression force applied to the material is caused by a workroll.

- 72. (new) A system for conditioning a moving material, the system comprising:

 a sensor that detects a distance to a surface of the moving material;

 a controller communicatively coupled to the sensor and configured to obtain a

 distance value associated with the distance to the surface of the moving material; and

 a roller operatively coupled to the controller, wherein the controller varies a

 position of the roller to vary a load applied to the moving material to achieve a desired

 condition of the moving material.
- 73. (new) A system as defined in claim 72, further comprising an encoder communicatively coupled to the controller and configured to measure a travel length value associated with the moving material.
- 74. (new) A system as defined in claim 72, wherein the sensor is one of a contact sensor and a non-contact sensor.
- 75. (new) A system as defined in claim 72, wherein the moving material is a strip material.
- 76. (new) A system as defined in claim 72, wherein the load is associated with at least one of a threshold distance value and an average distance value generated based on the distance value.

77. (new) A method of leveling strip material, the method comprising:

moving the strip material past a first sensor and a second sensor;

obtaining a first plurality of readings from the first sensor;

obtaining a second plurality of readings from the second sensor;

detecting a leveling condition based on the first plurality of readings and the second plurality of readings; and

generating an electrical signal to cause an adjustment of a load applied to the strip material in response to detecting the leveling defect.

78. (new) A method as defined in claim 77, wherein detecting the leveling condition comprises:

determining a first average for the first plurality of readings; determining a second average for the second plurality of readings; and determining a difference between the first average and the second average.

- 79. (new) A method as defined in claim 77, wherein moving the strip material past the first sensor and the second sensor comprises moving the strip material past at least one non-contact sensor.
- 80. (new) A method as defined in claim 77, wherein moving the strip material past the first sensor and the second sensor comprises moving the strip material past at least one of a sonic sensor, an optical sensor, and a riding needle sensor.

- 81. (new) A method as defined in claim 77, further comprising determining a length associated with the strip material based on an input from an encoder.
- 82. (new) A method as defined in claim 77, wherein causing a leveler workroll adjustment comprises causing a change in a workroll plunge.
- 83. (new) A method as defined in claim 82, wherein causing the change in the workroll plunge comprises adjusting a hydraulic cylinder operatively coupled to a backup bearing.
- 84. (new) A method as defined in claim 77, wherein causing the adjustment of the load comprises causing a change in a workroll center distance.
 - 85. (new) A method of conditioning a material, the method comprising: moving the material past a sensor;

detecting a material condition associated with the material as the material passes the sensor; and

generating an electrical signal to cause an adjustment of a force applied to the material based on the material condition.

86. (new) A method as defined in claim 85, wherein moving the material past the sensor comprises moving the material past at least one of a sonic sensor and an optical sensor.

- 87. (new) A method as defined in claim 85, wherein detecting the material condition associated with the material as the material passes the sensor comprises determining a distance between a first sensor reading location and a second sensor reading location.
- 88. (new) A method as defined in claim 87, wherein determining the distance between the first sensor reading position and the second sensor reading position comprises receiving a signal from an encoder.
- 89. (new) A method as defined in claim 85, wherein causing the adjustment in the force applied to the material comprises causing a change in a workroll plunge.
- 90. (new) A method as defined in claim 89, wherein causing the change in the workroll plunge comprises adjusting a hydraulic cylinder.
- 91. (new) A method as defined in claim 85, wherein causing the adjustment in the compression force applied to the material comprises causing a change in a workroll center distance.

- 92. (new) An apparatus to condition a material, comprising:
 - a roller configured to condition the material;
- a sensor positioned to measure a distance based on the location of a surface of the material and the location of the sensor; and
- a controller operatively coupled to the roller and the sensor, wherein the controller is configured to generate an electrical signal in response to the distance.
- 93. (new) An apparatus as defined in claim 92, further comprising a hydraulic cylinder operatively coupled to the controller to cause an adjustment to the roller in response to detecting the distance.
- 94. (new) An apparatus as defined in claim 93, further comprising a backup bearing operatively coupled to the hydraulic cylinder and the roller, wherein the backup bearing causes a change in a plunge associated with the roller.
- 95. (new) An apparatus as defined in claim 92, wherein the sensor comprises an acoustic sensor.
- 96. (new) An apparatus as defined in claim 92, wherein the sensor comprises an optical sensor.

- 97. (new) An apparatus as defined in claim 92, further comprising an encoder operatively coupled to the controller, wherein the controller is configured to use the encoder to determine a distance between a first sensor reading location and a second sensor reading location.
- 98. (new) An apparatus as defined in claim 92, wherein the controller is configured to cause the generation of a certification information associated with the material.
- 99. (new) An apparatus as defined in claim 98, further comprising a printer operatively coupled to the controller to print at least some of information the certification information.
- 100. (new) An apparatus as defined in claim 98, further comprising a display device operatively coupled to the controller to display at least some of the certification information.